

SEP 28 2006 K061856

**Section I 510(k) Summary of Safety and Effectiveness**

**Applicant:**

Atom Medical Inc  
Iwakata Bldg 3<sup>rd</sup> Floor 3-18-15, Hongo  
Tokoyo, Bunkyo-ku 1130033 Japan  
Registration No: In process

**Contact Person:**

Neoforce Group, Inc  
35 Commerce Drive  
Ivyland, Pa. 18974

Mary Staniewicz  
Ph 215-672-6800  
Fax 215-672-1123

**Device trade/proprietary name:**

V-2200 Infant Incubator

**Device common/usual/classification name:**

Infant Incubator

**Classification:**

General Hospital  
21 CFR 880.5400  
Infant Incubator, FMZ, Class II

Anesthesiology  
21 CFR 870.2700  
Oximeter, DQA, Class II

**Performance Standards:**

None applicable

**Predicate Device:**

K021809 V-2100G Infant Incubator  
K002355 V-505 Atom Infa Warmer  
K990966 Masimo Set Pulse Oximeter

## Device Description

This product consists of a hood, a sensor module, a mattress platform, a middle deck section, a conditioning chamber, a humidity chamber, an operation control section, a power source, a relay box, an oxygen supply/filter box, a pulse oximeter, an oxygen controller and a weight monitor. It is equipped with an incubator air temperature control function to circulate the air containing the heat energy generated by the heater attached to the conditioning chamber inside the hood by means of a fan in order to maintain the incubator air temperature at a fixed level. The device is also equipped with a skin temperature control function to maintain the infant's skin temperature at a fixed level in response to the patient's temperature as measured by the skin probe. There is a humidity control function to adjust the amount of vapor generated in the humidity chamber. The following additional features can be installed into the incubator: a pulse oximeter function to monitor SpO<sub>2</sub> concentration and pulse rate non-invasively; an oxygen control function to draw oxygen and outside air and control the oxygen concentration delivered to the patient compartment to the desired level; and a weight monitor to facilitate taking the infant's weight without moving them from the incubator. This device is designed to be used in treatment, procedures and observation of low-birth-weight and sick neonates, providing heat to the neonate when the body temperature is low and also to provide humidity if desired.

## Intended Use

The V-2200 Infant Incubator is a device to keep premature infants or neonatal infants in a warm environment which is covered by a hood and isolated from ambient air and of which internal air temperature and humidity, are controlled. It is intended for inpatient use in maternity nurseries, and neonatal care environments of hospitals or other healthcare facilities.

## Description of Modifications

The V-2200 Infant Incubator now incorporates an optional pulse oximeter which was not the subject of the original V-2200 submission. The Pulse Oximetry SpO<sub>2</sub> is provided by Masimo and is also a currently marketed device. The V-2100G Infant Incubator and the V-505 Infa Warmer are both currently marketed devices which incorporate this pulse oximetry technology from Masimo.



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

SEP 28 2006

Atom Medical, Incorporated  
C/O Ms. Mary Staniewicz  
Neoforce Group, Incorporated  
35 Commerce Drive  
Ivyland, Pennsylvania 18974

Re: K061856  
Trade/Device Name: V-2200 Infant Incubator  
Regulation Number: 21 CFR 880.5400  
Regulation Name: Neonatal Incubator  
Regulatory Class: II  
Product Code: FMZ, DQA  
Dated: June 5, 2006  
Received: June 30, 2006

Dear Ms. Staniewicz:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.


If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Chiu Lin', with a stylized flourish at the end.

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital,

Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known):

Device Name: V-2200 Infant Incubator

Indications for Use:

The V-2200 Infant Incubator is a device to keep premature infants or neonatal infants in a warm environment which is covered by a hood and isolated from ambient air and of which internal air temperature and humidity, are controlled. It is intended for inpatient use in maternity nurseries, and neonatal care environments of hospitals or other healthcare facilities. Optional functions include pulse oximetry and oxygen delivery.

This device is not intended for home use.

This device is not intended as a transport incubator.

This is a prescription device.

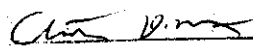
Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Signature Sign-Off)  
Division of Anesthesiology, General Hospital,  
Infection Control, Dental Devices

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